

**SECRET**[Redacted Box]  
Monthly Report

# 997244

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PAR 243

30 Apr 66

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SUBJECT: Briefing Print Enlarger (Prototype)

## TASK/PROBLEM

1. Design, fabricate, and test a prototype briefing print enlarger based upon tests and observations of the breadboard equipment developed on the combined PAR 202/224.

## DISCUSSION

2. Effort in mechanical design studies during the month was to enlarge upon and refine the basic arrangement decisions on:

a. The objective lens interchange mechanism.

b. The objective lens focus indicator mechanism, including the means to offset the zero point for adaptation to emulsion-away-from-lens operation and for the color printing operation.

3. Detail drawings for many castings have been worked on and were reviewed with the engineering staff of a local foundry. Castings are being used in several places to reduce fabrication costs for subsequent units.

4. Work was continued on the redesign of the negative transport system.

5. Sketches of a breadboard model of the easel photometer are nearly ready for shop release.

6. Photographic work was started to provide master target patterns and an exposure position template for the Microscope Resolution Target Camera to produce target patterns for use with a "LogEtronic Focatron" (for enlarger setup and calibration) and for resolution test target material.

7. The revised proposal, including a tentative specification with a current estimate of the project cost and the expected schedule, are in final form and are being circulated for administrative approval prior to publication.

Declass Review by NGA.

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PLANNED ACTIVITY

8. Continue tests on the breadboard enlarger.
9. Continue design studies where required and begin detail drawings where possible.
10. Build a breadboard model for development study of the easel photometer.
11. Deliver the revised proposal and the tentative specification.
12. Make shop releases for fabrication of parts of the first prototype enlarger as detail designs become available.

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